DOCUMENT RESUME

ED 150 995 IR 005 697

AUTHOR Kaplan, Doris F.
TITLE How to Find Out in: Biology.
INSTITUTION Maine Univ., Orono. Raymond H. Folger Library.
PUB DATE 76
NOTE 11p.

EDRS PRICE MF-$0.83 HC-$1.67 Plus Postage.
DESCRIPTORS Bibliographies; *Biology; Library Collections; *Library Guides; *Reference Materials; *University Libraries

ABSTRACT

This library handbook was designed for the student of biology. It lists some of the more useful materials and reference works basic tc general research and gives their locations in the Fogler Library at the University of Maine. Materials are listed in six categories: (1) guides to the literature; (2) dictionaries and encyclopedias; (3) handbooks; (4) directories and biographies; (5) bibliographies; and (6) abstracts and indexes. Some entries are annotated. (Author/AWP)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED150995

How to find out

IN BIOLOGY

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Clara K. Flower

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND USERS OF THE ERIC SYSTEM."

IR005697

FOGLER LIBRARY - UNIVERSITY OF MAINE - ORONO

BIOLOGY

COVER: The symbol on the cover represents the ankh, an Egyptian symbol for life.

Compiled by the Reference Department:
Doris F. Kaplan
1976

TABLE OF CONTENTS

Guides to the Literature p.1

Dictionaries & Encyclopedias p.1,2,3

Handbooks p.3,4

Biography, Directories p.4

Bibliography p.5

Abstracts, Indexes & Journals p.5,6

THE CARD CATALOG

A note on using the card catalog:

To simplify use of the card catalog when looking for a particular subject use:

Library of Congress. Subject Headings.

Lists correct subject headings and gives alternatives or related headings. Extremely valuable tool. Eliminates searching in too broad or dead-end areas. (Located at the card catalog or Reference desks)

DEWEY DECIMAL CLASSIFICATION SYSTEM

570	Biological Sciences (Sciences treating of phenomena of life)
574	Biology
574.1	Physiology
574.19	Biochemistry
574.191	Biophysics
574.3	Embryology
574.4	Morphology
574.5	Ecology
574.6	Economic Biology
574.8	Histology and Cytology
574.9	Biogeography
575	Evolution
576	Microbiology
577	Chemical Properties
578	Biological Techniques
579	Biological and Natural History Collections

LIBRARY OF CONGRESS CLASSIFICATION

QH 301-QH 705	General Biology (all areas of study)
QH 317	Laboratory Manuals
QH 323	Biological Stations
QH 324	Methods of Research. Apparatus
QH 325	Life
QH 331	Nature and Properties of Living Substance Philosophy
QH 351	Morphology (general)
QH 360's	Theory of Descent. Evolution. Origin of Species
QH 401	Variation
QH 421	Hybridization (but SB=Horticulture)
QH 431	Heredity
QH 471	Reproduction
QH 501	General Physiology (of the individual)
QH 540's	Ecology (general)
QH 570-QH 670's	Cytology
QH 705	Economic Biology

This library guide is an informal handbook for the student of Biology. It lists some of the more useful materials and reference works basic to general research and gives their locations in the Fogler Library.

GUIDES TO THE LITERATURE

Ref
QH
303
B6

Bottle, R.T. and H.V. Wyatt. Use of biological literature. 2d ed. Hamden, CT., Archon, 1972.
A discussion of the types and titles of biological literature. This book gives direction to the searcher by describing methods and technology of literature searching. This is a British approach to the subject.

Ref
Q
181
A1A68
#70-8

Deason, Hilary. J. AAAS science booklist. 3d ed. Wash., D.C. American Association for the Advancement of Science. 1970.
Guide to recreational and collateral reading and to basic reference works.

Ref
Z
5320
S57

Smith, Roger. Guide to the literature of the life sciences. 1972.
Excellent guidance for the student or scientist in regard to forms of scientific literature and how they differ from each other, searching the literature and preparation of a scientific paper. Index includes many titles.

DICTIONARIES AND ENCYCLOPEDIAS

Ref
QH
13
A25
1973

Abercrombie, Michael and others. Dictionary of biology. 6th ed. Baltimore, MD. Penguin, 1973.
Concise definitions, reasonable selection.

DICTIONARIES AND ENCYCLOPEDIAS (Cont'd.)

Ref
R
121
D73

Dorland's illustrated medical dictionary. 25th ed. Philadelphia, PA Saunders. 1974.
A standard work in the field. Gives definition, pronunciations, and derivations.

Ref
QH
13
G68

Gray, P. Dictionary of the biological sciences. N.Y. Reinhold. 1967.
600 pages of taxa, chemical terms, descriptive terms, roots, and vernacular names of organisms. List of works consulted. For the serious student.

Ref
QH
13
G7

Gray, P. Encyclopedia of the biological sciences. 2d ed. N.Y. Van Nostrand. 1970.
800 articles over the broad field of the biological sciences. Included: developmental, ecological, functional, genetic, structural, and taxonic areas of the biological sciences. Many articles signed by authors; references.

Ref
QH
13
H38

Henderson, I.F. and W.D. Dictionary of biological terms. 8th ed. N.Y. Van Nostrand. 1963.
A British dictionary of terms in biology, botany, zoology, anatomy, physiology, cytology, genetics, and embryology.

Ref
QH
13
J3

Jaeger, E.C. Biologist's handbook of pronunciation. Springfield, IL. Thomas. 1960.
Over 9000 words with pronunciation for the student and teacher.

Ref
QH
540.4
M3

McGraw-Hill encyclopedia of environmental science. N.Y. McGraw. 1974.
A selection from the broader McGraw-Hill Encyclopedia of science & technology - with new material.

DICTIONARIES AND ENCYCLOPEDIAS (Cont'd.)

Ref
QP
516
H3
1970

Sober, Herbert A. CRC handbook of biochemistry (Also selected data for Molecular biology) Cleveland, OH. Chemical Rubber Co. 1970.
Information from today's principal research frontiers are presented in concise form, with references for further study.

Ref
QP
512
W5

Williams, Roger and E.M. Lansford. Encyclopedia of biochemistry. N.Y. Reinhold. 1967.
Supplements standard texts with concise references to specific subjects.

HANDBOOKS

Ref
QH
310
A39

Altman, Philip L. and D.S. Dittmer, eds. Biology data book. 2d ed., 3v. Bethesda, MD. Federation of American Societies for Experimental Biology.
Presents basic established data in the biological and medical sciences. Information included will be of use to readers at all levels.

Ref
Z
250.6
B5C6
(Desk)
2c.

Council of Biology Editors. CBE style manual. 3d ed. Washington, D.C. American Institute of Biological Sciences. 1972.
A style manual for student papers and for those preparing manuscripts for publication. Includes information on proper usage, form for typing, abbreviations, citations and bibliography.

Ref
QH
203
G8

Gray, Peter, Encyclopedia of microscopy and microtechnique. N.Y. Van Nostrand. 1973.
Theory, practice, techniques, disciplines, individual subjects or materials for examination.

Ref
QH
433
K56

King, Robert C. Handbook of genetics. 2v. N.Y. Plenum 1974.
Short, authoritative essays or annotated compilations of data on a variety of significant topics.

HANDBOOKS (Cont'd.)

Ref
QH
45.2
P34

Palmer, E. Laurence and H.S. Fowler. Fieldbook of natural history. N.Y. McGraw. 1975.
Treats man in his environment and as a part of that environment. Each major field in natural history is included. Short descriptions and clear illustrations.

BIOGRAPHY, DIRECTORIES

Ref
Q
141
D5

Gillespie, Charles C. Dictionary of scientific biography. N.Y. Scribner's. 1970+
Published under the auspices of the American Council of Learned Societies. Information on the history of science from antiquity to modern times; articles on the professional lives of scientists; no living scientists included. Bibliographies. (A-S published to date)

Ref
Q
141
A47

American men and women of science. 12th ed. The Physical and Biological Sciences. 1973.
Biographical information on living American scientists. The six volume set on the physical and biological sciences includes some 150,000 entries + a discipline index which includes these names arranged according to discipline. Ex: Biology.

Ref
Q
141
W62

Williams, Trevor I., ed. Biographical dictionary of scientists. 2d ed. N.Y. Wiley. 1974.
Short paragraphs about famous scientists, living and dead, plus a short list of references for each one.

BIBLIOGRAPHY

Ref
Z
7408
U5M5

Meisel, M. Bibliography of American natural history...1796-1865. 1924-1929.
Annotated bibliography covering journal articles and publications of scientific societies and museums on botany, geology, minerology, paleontology, and zoology.

Govt. Docs.

U.S. Department of Agriculture. Dictionary catalog of the National Agricultural Library, 1862-1965, with supplements. 1967-
Contains the holdings of the National Agricultural Library. Arranged in dictionary form. (A single alphabetic sequence of author, title, and subject entries.)

ABSTRACTS, INDEXES AND JOURNALS

An index supplies bibliographic citations to articles, books, papers, etc.

An abstract supplies all the information above plus summaries.

Per-R

Bibliography of agriculture, v.1, 1942+
A classified bibliography listing the domestic and foreign literature received by the U.S. Department of Agriculture.

Per-R

Biological abstracts, v.1, 1926+
The largest biological service, covers some 5000 periodicals from around the world. Article titles are listed in published language with English abstracts.

Per-R

Biological and agricultural index, 1964+
A detailed subject approach to the literature of about 150 English language journals.

Per-R Bio-research index, (supercedes Bio-research times), 1965-
Should be used as a companion to Biological Abstracts. Includes reports of research not published in Biological Abstracts.

Per-R Chemical abstracts. v.1, 1907-
The most comprehensive of the abstract journals. Worldwide journal titles with signed abstracts in English. Subject, author, formula, and patent indexes.

Per-R Cumulated index medicus, v.1, 1960-
A mechanically compiled comprehensive index to the world's medical literature. Journals indexed are for the following fields: biometry, botany, chemistry, entomology, medicine, physics, psychology, sociology, veterinary medicine, and zoology.

A list of journals in the Biological Sciences is available in the Periodicals Department.